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AUTHOR: (8) Namitkov, K. K.

TITLE: (6) Transfer phenomena in low-voltage pulses discharges

PERIODICAL: (15) Ukrayins'kyy fizychnyy zhurnal, v. 7: 10, 1962.
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TEXT: Effects of the molecular properties of electrode surfaces, of interelectrode distances and of surface changes following gas discharge are discussed. For instance, if the surface is covered by a thin layer of water, the transfer changes substantially. Interelectrode distance also affects transfer. There is an optimum distance for which the transfer effect is strongest (e.g. about 10 μ in air discharge of a 1200 μ F condenser at 200 V). Increase of the interelectrode distance decreases the total erosion of both cathode and anode. Breakdown of interelectrode gap occurs at distances about 10 - 100 times smaller if the electrodes have already been treated. This explains the fact that transfer ceases in spark treatment after reaching comparatively small coating thicknesses.

Card 1/2

Transfer phenomena in ...

S/185/62/007/010/018/020
D234/D308

There is 1 table.

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Card 2/2